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**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q78027

Masatoshi YUMOTO, et al.

Appln. No.: 10/687,610

Group Art Unit: 1712

Confirmation No.: 2613

Examiner: NOT YET ASSIGNED

Filed: October 20, 2003

For: POLYETHER DERIVATIVE AND PROCESS FOR PRODUCING THE SAME



**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents, other than any U.S. patents and patent publications, is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

INFORMATION DISCLOSURE STATEMENT  
U.S. Appln. No.: 10/687,610  
Attorney Docket No.: Q78027

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations:

*Hirotsugu Sato et al., "Journal of Image Electronics Society", vol. 11, No. 4, 1982, pp. 290-296 is discussed on page 1 in the specification.*

*Toshimasa Usami et al. "UV-Fixable Diazo Type Thermal Recording Material", Denshi Shashin Gakkai Shi 26, no. 2 (1987): 115-119 is discussed on page 1 in the specification*

*Shouhei Yoshida et al., "Mechanism of Color Development for UV-Fixable Thermal Recording Material," Denshi Shashin Gakkai Shi 26, no. 2 (1987):120-125 is accompanied by a concise explanation in the English language.*

*Asaji Kondo, "Microcapsule", The Nikkan Kogyo Shimbun, Ltd., 1970 is discussed on page 2 in the specification.*

*Tamotsu Kondo, "Microcapsule", Sankyo Shuppan, 1977 is discussed on page 2 in the specification.*

*Japanese Patent Application Laid-open Nos. 62-212190, 4-261893 and 10-114153 are discussed on page 2 in the specification and Japanese Patent Application Laid-open No. 10-114153 corresponds with USP 5,916,680 (not submitted herewith).*

*J. Org. Chem., vol. 45, No. 26, 1980, pp. 5364-5367 is discussed on page 3 in the specification.*

*Japanese Patent Application Laid-open No. 11-263834 is discussed on page 3 in the specification.*

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*Eur. Polym. J., vol. 19, no. 4, 1983, pp. 341-343 is discussed on page 3 in the specification.*

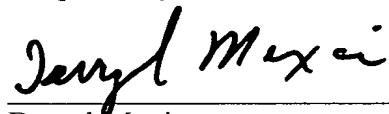
*J. Am. Chem. Soc., vol. 118, No. 42, 1996, pp. 10150-10151 is discussed on page 3 in the specification.*

*C.Y. Wu et al., Tetrahedron Letters, 43, 2002, pp. 1529-1533 is discussed on page 4 in the specification.*

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,



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WASHINGTON OFFICE  
23373  
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Date: January 30, 2004

Substitute for Form 1449A & B/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/687,610
(use as many sheets as necessary)				Confirmation Number	2613
				Filing Date	October 20, 2003
				First Named Inventor	Masatoshi YUMOTO
				Art Unit	1712
				Examiner Name	NOT YET ASSIGNED
Sheet	1	of	1	Attorney Docket Number	Q78027

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U.S. PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	62-212190	A	9/18/1987	Kanzaki Paper MFG. Co., Ltd.	Abstract
		JP	10-114153	A	5/6/1998	Fuji Photo Film Co., Ltd.	Abstract
		JP	11-263834	A	9/28/1999	NOF Corporation	Abstract
		JP	4-261893	A	9/17/1992	Fuji Photo Film Co., Ltd.	Abstract

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		Hirotsugu Sato, et al., "Journal of Image Electronics Society", vol. 11, No. 4, 1982, pp. 290-296	
		Toshimasa Usami, et al., "UV-Fixable Diazo Type Thermal Recording Material", Densi Shashin Gakkai Shi 26, no. 2 (1987): 115-119	
		Shouhei Yoshida, et al., "Mechanism of Color Development for UV-Fixable Thermal Recording Material", "Densi Shashin Gakkai Shi 26, no. 2. (1987): 120-125	
		Asaji Kondo, "Microcapsule", The Nikkan Kogyo Shimbun, Ltd., 1970	
		Tamotsu Kondo, "Microcapsule", Sankyo Shuppan, 1977	
		J. Org. Chem., vol. 45, no. 26, 1980, pp. 5364-5367	
		Eur. Polym. J. vol. 19, no. 4, 1983, pp. 341-343	
		J. Am. Chem. Soc., vol. 118, No. 42, 1996, 10150-10151	
		C.-y. Wu, et al., "Tetrahedron Letters", 43, 2002, pp. 1529-1533	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.